An Introduction to Object-Oriented Programming with UML Using Borland C++
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1. Object-oriented programming languages. 2. C++ (Computer program languages). I. Title. 005.133
This book introduces object-oriented programming using Borland C++ programming language through an approach that uses example programs. This approach simplifies and reinforces the learning process. Each chapter contains two or more complete example programs that illustrate the materials covered. The output of each example program is shown with the program code written in Borland C++ for window. Most chapters contain full programming solutions for case studies. The case studies are designed to cover materials within the topics discussed in the chapters. The last chapter in this book shows the mapping of object-oriented analysis into object-oriented implementation. Some of the materials in this book are from my previous book entitled “Object-Oriented Programming Using C++ - An Introduction”.

The Intended Audience

This book is aimed at First Year students in computer science and related disciplines. It is written in object-oriented manners. The main objectives of the book are

• To introduce to students as early as possible on how to write programs in object-oriented manners using programming language C++
• To motivate students to write programs in a modular approach using functions and classes.

The Content

This book consists of 6 chapters. Chapter 1 attempts to introduce the object-oriented approach. Chapter 2 introduces object-oriented programming using C++. Chapter 3 covers topics on debugging and testing. Chapter 4 discusses advanced topics in object-oriented programming while Chapter 5 discusses advanced topics in C++. Finally, Chapter 6 shows the mapping of object-oriented analysis into object-oriented implementation by using UML (Unified Modeling Language) Specification.

Each chapter in this book includes

• Learning objectives to be achieved within the chapter. This will enhance the learning experience.
• Example programs to show how the topics are done in object-oriented manners.
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